

(19)



JAPANESE PATENT OFFICE

## PATENT ABSTRACTS OF JAPAN

(11) Publication number: **2001136073 A**(43) Date of publication of application: **18.05.01**

(51) Int. Cl.

**H03M 7/30**(21) Application number: **11312878**(71) Applicant: **SAKAI YASUE**(22) Date of filing: **02.11.99**(72) Inventor: **KOYANAGI YUKIO**

(54) **COMPRESSION METHOD AND DEVICE,  
COMPRESSION AND EXPANSION SYSTEM, AND  
RECORDING MEDIUM**

COPYRIGHT: (C)2001,JPO

(57) Abstract:

**PROBLEM TO BE SOLVED:** To decrease the processing time by simplifying signal compression and expansion and to simplify the configuration to realize it.

**SOLUTION:** A compressor side applies over-sampling to digital data with a fundamental waveform in response to a value of received n-sets of discrete data, after obtaining a digital interpolation value with respect to the discrete data by synthesizing n-sets of over-sampled data by means of a moving average arithmetic operation or a convolution arithmetic operation, the obtained digital interpolation value is sampled at a time interval equivalent to a point at which the absolute value of its derivative is minimized, a set of discrete amplitude data at each sampling point and timing data denoting a time interval between the sampling points is obtained as compression data so that the signal remaining on a time base can be processed without the need for frequency conversion when the signal on the time base is compressed.

